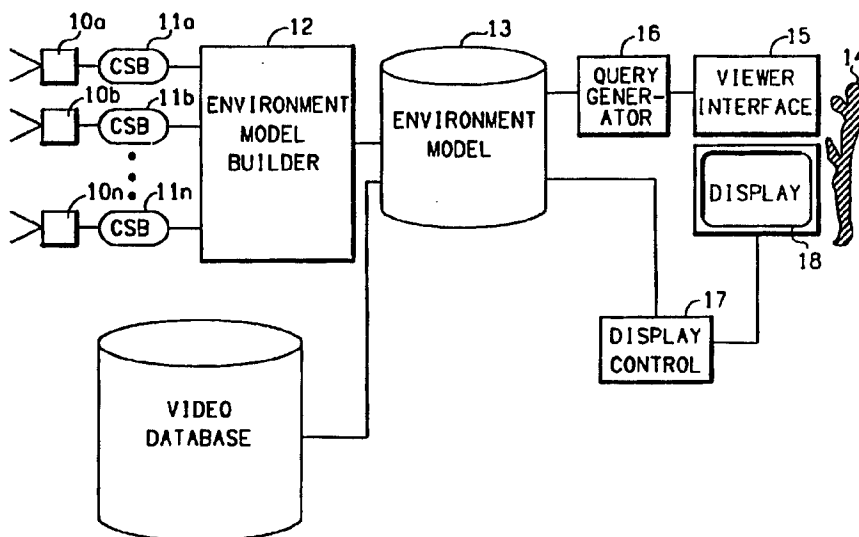




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06K 09/20		A3	(11) International Publication Number: WO 96/31047
			(43) International Publication Date: 3 October 1996 (03.10.96)
(21) International Application Number: PCT/US96/04400 (22) International Filing Date: 29 March 1996 (29.03.96) (30) Priority Data: 08/414,437 31 March 1995 (31.03.95) US 08/554,848 7 November 1995 (07.11.95) US (71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 22nd floor, 300 Lakeside Drive, Oakland, CA 94612-3550 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): JAIN, Ramesh [US/US]; 4715 Reedly Terrace, La Jolla, CA 92130 (US). WAKI-MOTO, Koji [JP/US]; 6-36-8-204, Shonandai, Fujisawa, Kanagawa 252 (JP). MOEZZI, Saied [US/US]; 10420 Caminito Alvarez, San Diego, CA 92126 (US). KATKERE, Arun [IN/US]; 9500 Gilman Drive, La Jolla, CA 92093-0407 (US). (74) Agent: FUESS, William, C.; Suite II-G, 10951 Sorrento Valley Road, San Diego, CA 92121-1613 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 7 November 1996 (07.11.96)	

(54) Title: IMMERSIVE VIDEO



(57) Abstract

Immersive video, or television, images of a real-world scene are synthesized (i) on demand, (ii) in real time, (iii) as linked to any of a particular perspective on the scene, or an object or event in the scene, (iv) in accordance with user-specified parameters of presentation, including panoramic or magnified presentations, and/or (v) stereoscopically. Multiple video cameras (10a-10c) each at a different spatial location produce multiple two-dimensional video images of the scene. A viewer/user specifies viewing criterion (ia) at a viewer interface (10). A video display (18) receives and displays the synthesized 2-D video image(s).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/04400**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) :G06K 09/20

US CL :364/514A

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 364/514A; 382/10, 16, 19, 23, 28; 395/119, 120, 125, 127; 359/462, 466

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS (real-world scene; and model; and multiple cameras; and three-dimensional; and viewer criterion; and synthesizing; and spatial perspective)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, A, 5,267,329 (ULICH ET AL) 30 November 1993, col. 9, lines 21-24, col. 7, lines 58-68, col. 8, lines 65-67, col. 8, lines 35-37, col. 8, lines 10-14, col. 10, lines 3-6.	1-36

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&

document member of the same patent family

Date of the actual completion of the international search

24 JUNE 1996

Date of mailing of the international search report

16 SEP 1996

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